

s cycloolefin polymers

477 CYCLOOLEFIN

181043 POLYMERS

L1 57 CYCLOOLEFIN POLYMERS

(CYCLOOLEFIN(W)POLYMERS)

=> s L1 and inorganic fillers

174497 INORGANIC

67129 FILLERS

6150 INORGANIC FILLERS

(INORGANIC(W)FILLERS)

L2 10 L1 AND INORGANIC FILLERS

=> s L2 and titanium dioxide and barium sulfate and calcium sulfate and calcium carbonate and barium carbonate

122112 TITANIUM

159897 DIOXIDE

33407 TITANIUM DIOXIDE

(TITANIUM(W)DIOXIDE)

55906 BARIUM

155738 SULFATE

12635 BARIUM SULFATE

(BARIUM(W)SULFATE)

169577 CALCIUM

155738 SULFATE

13031 CALCIUM SULFATE

(CALCIUM(W)SULFATE)

169577 CALCIUM

160570 CARBONATE

49712 CALCIUM CARBONATE

(CALCIUM(W)CARBONATE)

55906 BARIUM

160570 CARBONATE

4113 BARIUM CARBONATE

(BARIUM(W)CARBONATE)

L3 0 L2 AND TITANIUM DIOXIDE AND BARIUM SULFATE AND CALCIUM SULF

ATE

AND CALCIUM CARBONATE AND BARIUM CARBONATE

=> s L2 and titanium dioxide

122112 TITANIUM

159897 DIOXIDE

33407 TITANIUM DIOXIDE

(TITANIUM(W)DIOXIDE)

s L2 and sulfate

155738 SULFATE

L5 10 L2 AND SULFATE

=> s L2 and carbonate

160570 CARBONATE

Searched file EPO as well

10/29/98.
bf.

UPDATED APS SEARCH

08/957,187

=> s cycloolefin or cyclolefin

511 CYCLOOLEFIN
22 CYCLOLEFIN
L1 515 CYCLOOLEFIN OR CYCLOLEFIN

=> s L1 and (polymer or copolymer)

238839 POLYMER
121779 COPOLYMER
L2 433 L1 AND (POLYMER OR COPOLYMER)

=> s L2 and (multilayer or laminate or composite)

29626 MULTILAYER
46667 LAMINATE
170359 COMPOSITE
L3 87 L2 AND (MULTILAYER OR LAMINATE OR COMPOSITE)

=> display L3 1-87 ab

=> s 428/500/ccls or 428/515/ccls or 428/516/ccls or 428/518/ccls or 428/519/ccls or 428/521/ccls or 428/523/ccls

1890 428/500/CCLS
809 428/515/CCLS
1913 428/516/CCLS
1005 428/518/CCLS
499 428/519/CCLS
735 428/521/CCLS
881 428/523/CCLS
L4 5879 428/500/CCLS OR 428/515/CCLS OR 428/516/CCLS OR 428/518/CCL
S O R 428/519/CCLS OR 428/521/CCLS OR 428/523/CCLS

=> s L4 and (cycloolefin or cyclolefin or cyclic olefin)

511 CYCLOOLEFIN
22 CYCLOLEFIN
107037 CYCLIC
47048 OLEFIN
504 CYCLIC OLEFIN
(CYCLIC(W)OLEFIN)
L5 28 L4 AND (CYCLOOLEFIN OR CYCLOLEFIN OR CYCLIC OLEFIN)

=> display L5 1-28 ab

APS SEARCH 08/957,187

s norbornene

L1 6822 NORBORNENE

=> s L1 and composite films

162325 COMPOSITE

134990 FILMS

947 COMPOSITE FILMS

(COMPOSITE(W)FILMS)

s films

L1 134990 FILMS

=> s L1 and cycloolefin polymer

477 CYCLOOLEFIN

226797 POLYMER

48 CYCLOOLEFIN POLYMER

(CYCLOOLEFIN(W)POLYMER)

s cycloolefin polymer and water vapor

477 CYCLOOLEFIN

226797 POLYMER

48 CYCLOOLEFIN POLYMER

(CYCLOOLEFIN(W)POLYMER)

723606 WATER

165712 VAPOR

32444 WATER VAPOR

(WATER(W)VAPOR)

s cycloolefin polymer

477 CYCLOOLEFIN

226797 POLYMER

L51 48 CYCLOOLEFIN POLYMER

(CYCLOOLEFIN(W)POLYMER)

=> s cycloolefin polymer

477 CYCLOOLEFIN

226797 POLYMER

L1 48 CYCLOOLEFIN POLYMER

s L1 and multilayer

27754 MULTILAYER

L2 0 L1 AND MULTILAYER

=> s L1 and film

335731 FILM

s cycloolefin polymer and hydrogenation

477 CYCLOOLEFIN

226797 POLYMER

48 CYCLOOLEFIN POLYMER

(CYCLOOLEFIN(W)POLYMER)

41573 HYDROGENATION

s L3 and monoaxially oriented

901 MONOAXIALLY

239986 ORIENTED

287 MONOAXIALLY ORIENTED

(MONOAXIALLY(W)ORIENTED)

L5 0 L3 AND MONOAXIALLY ORIENTED

=> s L3 and oriented

239986 ORIENTED

L6 0 L3 AND ORIENTED
 => s L3 and streching ratio
 175 STRECHING
 559239 RATIO
 5 STRECHING RATIO
 (STRECHING(W)RATIO)
 L7 0 L3 AND STRECHING RATIO
 => s L3 and inorganic fillers
 174316 INORGANIC
 67053 FILLERS
 6146 INORGANIC FILLERS
 (INORGANIC(W)FILLERS)
 L8 0 L3 AND INORGANIC FILLERS
 => s L1 and inorganic fillers
 174316 INORGANIC
 67053 FILLERS
 6146 INORGANIC FILLERS
 (INORGANIC(W)FILLERS)
 L9 15 L1 AND INORGANIC FILLERS
 s 428/500/ccls
 L1 1820 428/500/CCLS
 => s L1 and cycloolefin
 477 CYCLOOLEFIN
 s 425/515/ccls
 L3 119 425/515/CCLS
 => s L3 and cycloolefin
 477 CYCLOOLEFIN
 L4 0 L3 AND CYCLOOLEFIN
 => s 428/516/ccls
 L5 1850 428/516/CCLS
 => s L5 and cycloolefin
 477 CYCLOOLEFIN
 L6 9 L5 AND CYCLOOLEFIN
 s 428/518/ccls
 L7 987 428/518/CCLS
 => s L7 and cycloolefin
 477 CYCLOOLEFIN
 L8 1 L7 AND CYCLOOLEFIN
 s 428/519/ccls
 L9 493 428/519/CCLS
 => s L9 and cycloolefin
 477 CYCLOOLEFIN
 s 428/521/ccls
 L11 719 428/521/CCLS
 => s L11 and cycloolefin
 477 CYCLOOLEFIN
 L12 4 L11 AND CYCLOOLEFIN
 s 428/523/ccls
 L13 843 428/523/CCLS
 => s L13 and cycloolefin
 477 CYCLOOLEFIN
 L14 2 L13 AND CYCLOOLEFIN

08/957,187

It was not clear whether the application contained 8 claims or 20 claims. I called the attorney on 10/28/97. Upon checking their records the attorney indicated that only 8 claims were filed in the original application. The application file folder lists the number of claims incorrectly as 20 – that number should be 8.

Sheeba Ahmed

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Search Results - Record(s) 1 through 1 of 1 returned.

- ☐ 1. Document ID: CA 2276728 A1, DE 19828857 A1, EP 968819 A2, JP 2000037833 A
Relevance Rank: 99

L1: Entry 1 of 1

File: DWPI

Dec 29, 1999

DERWENT-ACC-NO: 2000-088340

DERWENT-WEEK: 200024

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TITLE: Production of thermoformable laminated film used for making blister packs,
e.g. for pharmaceuticals or food

INVENTOR: BEER, E; HATKE, W

PATENT-ASSIGNEE:

ASSIGNEE

CODE

TICONA GMBH

TICON

PRIORITY-DATA: 1998DE-1028857 (June 29, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2276728 A1	December 29, 1999	E	000	B32B007/12
<u>DE 19828857 A1</u>	December 30, 1999		011	C08L045/00
EP 968819 A2	January 5, 2000	G	000	B32B027/32
JP 2000037833 A	February 8, 2000		010	B32B027/32

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CA 2276728A1	June 29, 1999	1999CA-2276728	
DE 19828857A1	June 29, 1998	1998DE-1028857	
EP 968819A2	June 21, 1999	1999EP-0111882	
JP2000037833A	June 29, 1999	1999JP-0183104	

INT-CL (IPC): B32 B 7/12; B32 B 27/32; B32 B 31/00; B65 D 65/40; B65 D 75/36; C08 J 5/12; C08 J 5/18; C08 L 45/00

ABSTRACTED-PUB-NO: DE 19828857A

BASIC-ABSTRACT:

NOVELTY - Production of a thermoformable laminated film involves laminating thermoplastic film(s) (A) to cycloolefin copolymer film(s) (B) using a solvent-free adhesive.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the use of a solvent-free adhesive in this process.

USE - The laminated film is used for making blister packs (claimed) or push-through packaging, e.g. for use in automated packaging and presentation of the product, such as pharmaceuticals in the form of tablets, capsules etc., food, e.g. products containing rice, cookies and snacks, and also water-absorbing articles, such as cigarettes and tea bags.

ADVANTAGE - Cycloolefin polymers have very good water vapor barrier properties but poor resistance to fats. Polyvinyl chloride is normally used in blister packs. Although polyvinylidene chloride coating is often used to increase the gas (especially water vapor) barrier properties,

unoriented polypropylene is preferred for ecological reasons. However, it has poor deep drawing characteristics and high shrinkage. These laminates combine good water vapor barrier properties with good processing, including deep drawing, characteristics. They also gave good resistance to fats and can be made by an economical and environmentally friendly process.

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: PRODUCE LAMINATE FILM BLISTER PACK PHARMACEUTICAL FOOD

DERWENT-CLASS: A17 A92 B07 G03 P73 Q34

CPI-CODES: A04-G01E; A11-C01C; A12-P06C; B04-C03B; B11-C06; G03-B01; G03-B02;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

H6 H602 H682 H7 H713 H721 M210 M212 M250 M281
M320 M423 M781 M904 M905 Q331 R043 R045

Specific Compounds

A01ECK A01ECQ A01ECU

Chemical Indexing M1 *02*

Fragmentation Code

H7 H721 M210 M213 M231 M320 M423 M510 M520 M530
M540 M610 M781 M904 M905 M910 Q331 R043 R045

Specific Compounds

A009XK A009XQ A009XU

Chemical Indexing M6 *03*

Fragmentation Code

M905 R043 R045 R303 R740

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ;
M9999 M2802 ; L9999 L2802 ; K9427 ; H0000 ; S9999 S1285*R ; P1150 ; P1343 Polymer Index [1.2]
018 ; R00338 G0544 G0022 D01 D12 D10 D51 D53 D58 D69 D82 C1 7A ; M9999 M2802 ; L9999
L2802 ; K9427 ; H0000 ; S9999 S1285*R ; P1796 P1809 Polymer Index [1.3] 018 ; ND01 ; ND07 ;
N9999 N5721*R ; K9574 K9483 ; K9676*R ; Q9999 Q8504 Q8366 ; B9999 B5243*R B4740 ; B9999
B4671 B4568 ; B9999 B3623 B3554 ; B9999 B4864 B4853 B4740 ; B9999 B3372*R ; N9999
N6939*R ; Q9999 Q7589*R ; B9999 B4660 B4568 ; K9701 K9676 Polymer Index [1.4] 018 ; B9999
B5265 B4740 ; K9712 K9676 ; B9999 B5403*R B5276 Polymer Index [2.1] 018 ; G0033*R G0022
D01 D02 D51 D53 ; H0000 ; H0011*R ; S9999 S1285*R ; P1150 Polymer Index [2.2] 018 ; ND01 ;
ND07 ; N9999 N5721*R ; K9574 K9483 ; K9676*R ; Q9999 Q8504 Q8366 ; B9999 B5243*R B4740 ;
B9999 B4671 B4568 ; B9999 B3623 B3554 ; B9999 B4864 B4853 B4740 ; B9999 B3372*R ; N9999

N6939*R ; Q9999 Q7589*R ; B9999 B4660 B4568 ; K9701 K9676 Polymer Index [3.1] 018 ; Q9999 Q6644*R Polymer Index [3.2] 018 ; ND01 ; ND07 ; N9999 N5721*R ; K9574 K9483 ; K9676*R ; Q9999 Q8504 Q8366 ; B9999 B5243*R B4740 ; B9999 B4671 B4568 ; B9999 B3623 B3554 ; B9999 B4864 B4853 B4740 ; B9999 B3372*R ; N9999 N6939*R ; Q9999 Q7589*R ; B9999 B4660 B4568 ; K9701 K9676 Polymer Index [3.3] 018 ; Q9999 Q6644*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-024788

Non-CPI Secondary Accession Numbers: N2000-069410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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Term	Documents
DE-19828857-\$	0
DE-19828857-A1.DWPI.	1
DE-19828857-\$.DID..DWPI.	1
(DE-19828857-\$.DID.).DWPI.	1

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